

5'	GTT	CGA	TGA	AAG	AAT	TGC	CGC	TTT	TCA	AAC	AAA	GAG	TGG	AAC	AGC	CTC	GGA	GAT
	GGG	AAC	AGA	GAG	GGC	GAT	GGG	GCT	GTC	AGA	AGA	ATG	GAC	TGT	GCA	CAG	CCA	AGA
	GGC	CAC	CAC	TTC	GGC	TTG	GAG	CCC	TTC	CTT	TCT	TCC	TGC	TTT	GGA	GAT	GGG	AGA
	GCT	GAC	CAC	GCC	TTC	TAG	GAA	GAG	AAA	TTC	CTC	AGG	ACC	AGA	TCT	CTC	CTG	GCT
	GCA	TTT	CTA	CAG	GAC	AGC	AGC	TTC	CTC	TCC	TCT	CTT	AGA	CCT	TTC	CTC	ACC	TTC
	TGA	AAG	TAC	AGA	GAA	GCT	TAA	CAA	CTC	CAC	TGG	CCT	CCA	GAG	CTC	CTC	AGT	CAG
	TCA	AAC	AAA	GAC	AAT	GCA	TGT	TGC	TAC	CGT	GTT	CAC	TGA	TGG	TGG	CCC	GAG	AAC
	GCT	GGC	ATC	TTT	GAC	GGT	CAG	TCT	GGG	ACC	TGT	GAG	CAA	GAC	AGA	AGG	CTT	CCC
	CAA	GGA	CTC	CAG	AAT	TGC	CAC	GAC	TTT	ATC	CTC	AGT	CCT	TCT	TTC	ACC	CTC	TGC
	AGT	GGA	ATC	GAG	AAG	AAA	CAG	TAG	AGT	AAC	TGG	GAA	TCC	AGG	GGA	TGA	GGA	ATT

FIGURE 1A

549	CAT	TGA	ACC	ATC	CAC	AGA	AAA	TGA	ATT	TGG	ACT	TAC	GTC	TTT	GCG	TGG	CAA	AAT	594
558																			
567																			585
603	GAT	TCC	CCA	ACC	TTT	GGA	GAA	CAT	CAG	CTT	GCC	AGC	AGC	TCT	GAG	GTG	CAA	AAT	639
612																			
621																			648
675	GGA	AGT	CCC	ATG	TCT	CAG	ACT	GAG	ACT	GTG	TCT	AGG	TCA	GTC	GCA	CCC	ATG	AGA	702
666																			
675																			693
711	GGT	GGA	GAG	ATC	ACT	GCA	CAC	TGG	CTC	TTG	ACC	AAC	AGC	ACA	ACA	TCT	GCA	GAT	747
720																			
729																			756
774	GTG	ACA	GGA	AGC	TCT	GCT	TCA	TAT	CCT	GAA	GGT	GTG	AAT	GCT	TCA	GTG	TTG	ACC	801
783																			
792																			810
801	V	T	G	S	S	A	S	Y	P	E	G	V	N	A	S	V	L	T	
819	CAG	TTT	TCA	GAC	TCT	ACT	GTA	CAG	TCT	GGA	GGA	AGT	CAC	ACA	GCA	TTG	GGA	GAT	855
828																			
837	Q	F	S	D	S	T	V	Q	S	G	G	S	H	T	A	L	G	D	864
873	AGG	AGT	TAT	TCA	GAG	TCT	TCA	TCT	ACA	TCT	TCC	TCG	GAA	AGC	TTG	AAT	TCA	TCA	900
882																			
891	R	S	Y	S	E	S	S	S	T	S	S	S	E	S	L	N	S	S	909
900																			
909																			918
918																			

FIGURE 1B

927	GCA	CCA	CGT	GGA	GAA	CGT	TCA	ATC	GCT	GGG	ATT	AGC	TAC	GGT	CAA	GTG	CGT	GGC	972
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	A	P	R	G	E	R	S	I	A	G	I	S	Y	G	Q	V	R	G	
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
981	ACA	GCT	ATT	GAA	CAA	AGG	ACT	TCC	AGC	GAC	CAC	ACA	GAC	CAC	ACC	TAC	CTG	TCA	1026
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	T	A	I	E	Q	R	T	S	S	D	H	T	D	H	T	Y	L	S	
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
1035	TCT	ACT	TTC	ACC	AAA	GGA	GAA	CGG	GCG	TTA	CTG	TCC	ATT	ACA	GAT	AAC	AGT	TCA	1080
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	S	T	F	T	K	G	E	R	A	L	L	S	I	T	D	N	S	S	
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
1089	TCC	TCA	GAC	ATT	GTG	GAG	AGC	TCA	ACT	TCT	TAT	ATT	AAA	ATC	TCA	AAC	TCT	TCA	1134
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	S	S	D	I	V	E	S	S	T	S	Y	I	K	I	S	N	S	S	
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
1143	CAT	TCA	GAG	TAT	TCC	TCC	TTT	TCT	CAT	GCT	CAG	ACT	GAG	AGA	AGT	AAC	ATC	TCA	1188
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	H	S	E	Y	S	S	F	S	H	A	Q	T	E	R	S	N	I	S	
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
1197	TCC	TAT	GAC	GGG	GAA	TAT	GCT	CAG	CCT	TCT	ACT	GAG	TCG	CCA	GTT	CTG	CAT	ACA	1242
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	S	Y	D	G	E	Y	A	Q	P	S	T	E	S	P	V	L	H	T	

FIGURE 1C

1251	1260	1269	1278	1287	1296
TCC AAC CTT	CCG TCC TAC ACA	CCC ACC ATT AAT ATG	CCG AAC ACT	TCG GTT GTT	
S N L P S Y T P T I N M P N T S V V					
1305	1314	1323	1332	1341	1350
CTG GAC ACT GAT	GCT GAG TTT GTT AGT GAC	TCC TCC TCC TCC TCT	TCC TCC TCC	TCC TCC TCC	
L D T D A E F V S D S S S S S S					
1359	1368	1377	1386	1395	1404
TCC TCT TCT TCT	TCT TCA GGG CCT CCT TTG	CCT CTG CCC TCT GTG	TCA CAA TCC		
S S S S S S G P P L P L P S V S Q S					
1413	1422	1431	1440	1449	1458
CAC CAT TTA TTT	TCA TCA ATT TTA CCA	TCA ACC AGG GCC TCT GTG	CAT CTA CTA		
H H L F S S I L P S T R A S V H L L					
1467	1476	1485	1494	1503	1512
AAG TCT ACC TCT	GAT GCA TCC ACA CCA	TGG TCT TCC TCA CCA	TCA CCT TTA CCA		
K S T S D A S T P W S S S P S P L P					
1521	1530	1539	1548	1557	1566
GTA TCC TTA	ACG ACA TCT ACA	TCT GCC CCA CTT TCT	GTC TCA CAA ACA	ACC TTG	
V S L T T S T S A P L S V S Q T T L					

FIGURE 1D

1575	1584	1593	1602	1611	1620
CCA CAG TCA TCT	TCT ACC CCT GTC CTG CCC AGG GCA AGG GAG ACT	CCT GTG ACT			
P Q S S S T P V L P R A R E T P V T					
1629	1638	1647	1656	1665	1674
TCA TTT CAG ACA TCA ACA ATG ACA TCA TTC ATG ACA ATG CTC CAT AGT AGT CAA					
S F Q Q T S T M T S F M T M L H S S Q					
1683	1692	1701	1710	1719	1728
ACT GCA GAC CTT AAG AGC CAG AGC ACC CCA CAC CAA GAG AAA GTC ATT ACA GAA					
T A D L K S Q S T P H Q E K V I T E					
1737	1746	1755	1764	1773	1782
TCA AAG TCA CCA AGC CTG GTG TCT CTG CCC ACA GAG TCC ACC AAA GCT GTA ACA					
S K S P S L V S L P T E S T K A V T					
1791	1800	1809	1818	1827	1836
ACA AAC TCT CCT TTG CCT CCA TCC TTA ACA GAG TCC TCC ACA GAG CAA ACC CTT					
T N S P L P P S L T E S S T E Q T L					
1845	1854	1863	1872	1881	1890
CCA GCC ACA AGC ACC AAC TTA GCA CAA ATG TCT CCA ACT TTC ACA ACT ACC ATT					
P A T S T N L A Q M S P T F T T I					

FIGURE 1E

1899	1908	1917	1926	1935	1944
CTG AAG ACC TCT CAG CCT CTT ATG ACC ACT CCT GGC ACC CTG TCA AGC ACA GCA					
L K T S Q P L M T T P G T L S S T A					
1953	1962	1971	1980	1989	1998
TCT CTG GTC ACT GGC CCT ATA GCC GTA CAG ACT ACA GCT GGA AAA CAG CTC TCG					
S L V T G P I A V Q T T A G K Q L S					
2007	2016	2025	2034	2043	2052
CTG ACC CAT CCT GAA ATA CTA GTT CCT CAA ATC TCA ACA GAA GGT GGC ATC AGC					
L T H P E I L V P Q I S T E G I S					
2061	2070	2079	2088	2097	2106
ACA GAA AGG AAC CGA GTG ATT GTG GAT GCT ACC ACT GGA TTG ATC CCT TTG ACC					
T E R N R V I V D A T T G L I P L T					
2115	2124	2133	2142	2151	2160
AGT GTA CCC ACA TCA GCA AAA GAA ATG ACC ACA AAG CTT GGC GTT ACA GCA GAG					
S V P T S A K E M T T K L G V T A E					
2169	2178	2187	2196	2205	2214
TAC AGC CCA GCT TCA CGT TCC CTC GGA ACA TCT CCT TCT CCC CAA ACC ACA GTT					
Y S P A S R S L G T S P S P Q T T V					

FIGURE 1F

2223	2232	2241	2250	2259	2268
GTT TCC ACG	GOT GAA GAC	TTG GCT CCC	AAA TCT GCC	ACC TTT GCT	GTT CAG AGC
V S T	A E D	L A P	K S A	T F A	V Q S
2277	2286	2295	2304	2313	2322
AGC ACA CAG	TCA CCA ACA	ACA CTG TCC	TCT TCA GCC	TCA GTC AAC	AGC TGT GCT
S T Q	S P T	T L S	S S A	S V N	S C A
2331	2340	2349	2358	2367	2376
GTG AAC CCT	TGT CTT CAC	AAT GGC GAA	TGC GTC GCA	GAC AAC ACC	AGC CGT GGC
V N P	C L H	N G E	C V A	D N T	S R G
2385	2394	2403	2412	2421	2430
TAC CAC TGC	AGG TGC CCG	CCT TCC TGG	CAA GGG GAT	GAT TGC AGT	GTG GAT GTG
Y H C	R C P	P S W	Q G D	C S V	D V
2439	2448	2457	2466	2475	2484
AAT GAG TGC	CTG TCG AAC	CCC TGC CCA	TCC ACA GCC	ACG TGC AAC	AAT ACT CAG
N E C	L S N	P C P	S T A	T C N	N T Q
2493	2502	2511	2520	2529	2538
GGA TCC TTT	ATC TGC AAA	TGC CCG GTT	GGG TAC CAG	TTG GAA AAA	GGG ATA TGC
G S F	I C K	C P V	G Y Q	L E K	G I C

FIGURE 1G

2547	2556	2565	2574	2583	2592
AAT TTG GTT AGA ACC TTC GTG ACA GAG TTT AAA TTA AAG AGA ACT TTT CTT AAT					
N L V R T F V T E F K L K R T F L N					
2601	2610	2619	2628	2637	2646
ACA ACT GTG GAA AAA CAT TCA GAC CTA CAA GAA GTT GAA AAT GAG ATC ACC AAA					
T T V E K H S D L Q E V E N E I T K					
2655	2664	2673	2682	2691	2700
ACG TTA AAT ATG TGT TTT TCA GCG TTA CCT AGT TAC ATC CGA TCT ACA GTT CAC					
T L N M C F S A L P S Y I R S T V H					
2709	2718	2727	2736	2745	2754
GCC TCT AGG GAG TCC AAC GCG GTG GTG ATC TCA CTG CAA ACA ACC TTT TCC CTG					
A S R E S N A V V I S L Q T T F S L					
2763	2772	2781	2790	2799	2808
GCC TCC AAT GTG ACG CTA TTT GAC CTG GCT GAT AGG ATG CAG AAA TGT GTC AAC					
A S N V T L L F D L A D R M Q K C V N					
2817	2826	2835	2844	2853	2862
TCC TGC AAG TCC TCT GCT GAG GTC TGC CAG CTC TTG GGA TCT CAG AGG CGG ATC					
S C K S S A E V C Q L L G S Q R R I					

FIGURE 1H

2871	2880	2889	2898	2907	2916
TTT AGA GCG	AGC TTG TGC	AAG CGG AAG	AGT CCC GAA	TGT GAC AAA	GAC ACC
---	---	---	---	---	---
F R A G S L C K R K S P E C D K D T					
2925	2934	2943	2952	2961	2970
TCC ATC TGC	ACT GAC CTG GAC	GGC GTT GCC	CTG TGC CAG	TGC AAG TCG	GGA TAC
---	---	---	---	---	---
S I C T D L D G V A L C Q C K S G Y					
2979	2988	2997	3006	3015	3024
TTT CAG TTC	AAC AAG ATG GAC	CAC TCC TGC	CGA GCA TGT	GAA GAT GGA	TAT AGG
---	---	---	---	---	---
F Q F N K M D H S C R A C E D G Y R					
3033	3042	3051	3060	3069	3078
CTT GAA AAT	GAA ACC TGC ATG	AGT TGC CCA	TTT GGC CTT	GGT GGT CTC	AAC TGT
---	---	---	---	---	---
L E N E T C M S C P F G L G L N C					
3087	3096	3105	3114	3123	3132
GGA AAC CCC	TAT CAG CTT	ATC ACT GTG	GTG ATC GCA	GCC GCG GGA	GGT GGT
---	---	---	---	---	---
G N P Y Q L I T V V I A A G G L					
3141	3150	3159	3168	3177	3186
CTG CTC ATC	CTA GGC ATC GCA	CTG ATT GTT	ACC TGT TGC	AGA AAG AAT	AAA AAT
---	---	---	---	---	---
L L I L G I A L I V T C C R K N K N					

FIGURE 11

3195	3204	3213	3222	3231	3240
GAC ATA AGC AAA CTC ATC	TTC AAA AGT GGA GAT TTC	CAA ATG TCC	CCA TAT GCT		
---	---	---	---	---	---
D I S K L I F K S G D F Q M S P Y A					
---	---	---	---	---	---
3249	3258	3267	3276	3285	3294
GAA TAC CCC AAA AAT CCT	CGC TCA CAA GAA TGG GGC	CGA GAA GCT ATT	GAA ATG		
---	---	---	---	---	---
E Y P K N P R S Q E W G R E A I E M					
---	---	---	---	---	---
3303	3312	3321	3330	3339	3348
CAT GAG AAT GGA AGT ACC	AAA AAC CTC CTC CAG ATG	ACG GAT GTG	TAC TAC TCG		
---	---	---	---	---	---
H E N G S T K N L L Q M T D V Y Y S					
---	---	---	---	---	---
3357	3366	3375	3384	3393	3402
CCT ACA AGT GTA AGG AAT	CCA GAA CTT GAA CGA AAC	GGA CTC TAC	CCG GCC TAC		
---	---	---	---	---	---
P T S V R N P E L E R N G L Y P A Y					
---	---	---	---	---	---
3411	3420	3429	3438	3447	3456
ACT GGA CTG CCA GGA TCA	CGG CAT TCT TGC ATT TTC	CCC GGA CAG TAT	AAC CCG		
---	---	---	---	---	---
T G L P G S R H S C I F P G Q Y N P					
---	---	---	---	---	---
3465	3474	3483	3492	3501	3510
TCT TTC ATC AGT GAT GAA	AGC AGA AGA GAC TAC	TTT TAA GTC	CAG GAG AGA		
---	---	---	---	---	---
S F I S D E S R R R D Y F					

FIGURE 1J

3519	3528	3537	3546	3555	3564
GAG GGA CTC ATT GCT CTG AGC CAG TCA CCT GGG ACC TCT GCT CAG AGG ACC GCA					
3573	3582	3591	3600	3609	3618
CCA GGA GGC TGC GCC CAG GAT TTG TCG GGA GCC ACG CTG AGT GGC AAG CAG GAA					
3627	3636	3645	3654	3663	3672
GAG GGA CAG CCA TCC GGG GCG TGA CCA CAG TGG AGG AGA CAG GTG GAT GTG GAA					
3681	3690	3699	3708	3717	3726
CCA CAG GCT GCT CAT TCA GCA CCT TTG TTG TTA CTG TGA ACG TGA ATG TGG GCC					
3735	3744	3753	3762	3771	3780
AGT ATC AAG AGA GTC TCT CTG AGT GAC TGC ACC ATG GCA CTG GCA CCA GGG CGA					
3789	3798	3807	3816	3825	3834
CTA TTA GCC AGG GCA GAC CAC TAG ACT TCA GTG CAG GGA CCT GGT TTT CCC TTC					
3843	3852	3861	3870	3879	3888
GTT TGC ACT TTA GTA AAT TGG GTG GGA GGT TTC CTT TTG GAT CTG TTT TGA GAC					
3897	3906	3915	3924	3933	3942
TGT TCC AGA AAG AAG GCT TCC TTT CCC GAG ACA CTT CCA TAG GCA GCA ATT TGG					
3951	3960	3969	3978	3987	3996
TGA TTC ATT TGC AGC AAA ATA CTG GCT TGT TAA TTA TTT TCC TGC CCA GCG CCT					
4005	4014	4023	4032	4041	4050
GCG TGC TAA ACA ACA GAT GAG GAT GAG CGT ACC ACT GAA GTC TGA AGA TGT CGC					

FIGURE 1K

4059	4068	4077	4086	4095	4104
CAT TGA ACG GAC AGT GTT TTC ATA TGT TTC TAG GTT GTC TTA TGC TAC AGT TTC					
4113	4122	4131	4140	4149	4158
CAA GCC AGC CCC CAC AGT GAG GAA ATG TGT GAG GCA CCG CAC ACA ACT GCA ATG					
4167	4176	4185	4194	4203	4212
TGT TTT TTA AGT CAA GGT GAC ACA TGT ATT TAA GAT TTT TTT TTA AAA TCT CTT					
4221	4230	4239	4248	4257	4266
TGC AGT TAA ATC TCA CTT TTT CAA ACA AGC CTG GAT CAG GGC AAA ACA ACT TAT					
4275	4284	4293	4302	4311	4320
ATT TGG TTT TAG CTG GAG GCT CAG CAG GCA GAT TGC AGG CAG GGG GGC ACT TTT					
4329	4338	4347	4356	4365	4374
CAT CCA TGA GGG CCC AGC CTG GGG CCT GGG ACT CTG ATC ACC ATT GTG GAG GCC					
4383	4392	4401	4410	4419	4428
AGA GGC AGC TGC GTA TGG AGG AGA AAT GTC AAA CTG AAC GCA GGT TTC ACC ACT					
4437	4446	4455	4464	4473	4482
CTA GGA AAG CAG CTT GTT GAG CCC CTG CAG CTG GAT GTG GTT AGA GGG ATG GGC					
4491	4500	4509	4518	4527	4536
TGA ATA GGC AGG TTA GAT TTC CTG CAT CAA CAG TGC TTT GGG AAG CTG TGT GGA					
4545	4554	4563	4572	4581	4590
TTC CTG AGG AAG AAC AGG GAG CCG AGA TGG AGC CAC ACA TGA GTT TGC TCA CCG					

FIGURE IL

4599	4608	4617	4626	4635	4644
GCT ACT GCA GCA CTT TGT ACC CAG AAT CTC ATG TCC ACA AAC CCC ATG TAA ACT					
4653	4662	4671	4680	4689	4698
TTC AAC CAC TCA AAG CTG TTT ATT CGG CTG AAG AAA TAA CTT TTT TTT CTC ACC					
4707	4716	4725	4734	4743	4752
CAG TCA TTT GTA CCT CTT CAT ATG GCT GTG TCG CAC CCT CCA GAA ACG TGG TTA					
4761	4770	4779	4788	4797	4806
TAC TTC CAG TCA GTG TGG GAG AAC TGA AGA CTT CCG GTT CGA GGA ACT GAG					
4815	4824	4833	4842	4851	4860
GGT TGA CCT TCG GGA AGG AAG TTC CAC TCA TCT TAT TTA TTA TGC CTG TGA TGT					
4869	4878	4887	4896	4905	4914
GGG TCC TGC CAG GGA GAC ATC CAG TAC TCG GTG TCT TTA ATT GCC ACC TGG GGA					
4923	4932	4941	4950	4959	4968
ACT GTG TTT ATT GGC CTT CTT TGG GGC ATC CTG GTT TTG GAT GAA GTG AGG GGA					
4977	4986	4995	5004	5013	5022
ATA CAG AGG TAA AAG AAT TGT CTC CAC CCT GAA GCG GGG AGT CCC GCT TCA CAT					
5031	5040	5049	5058	5067	5076
TTC TGG AAA TGG TGC AGC CAC TGG GGA CAG TTC TGC CCC GGG CAT GGT TGT TTC					
5085	5094	5103	5112	5121	5130
TTC AAG GTC CTC TAA ATA TAA TCC CTA TTC TTA CAT AAT CCT TGG CCC TGA TGG					

FIGURE 1M

5139	5148	5157	5166	5175	5184
TTT TAA GCA AGA ACT CCT GTG TCC CAT GGT CTC CAC CAC TCA CCA TCA CCC TGC					
5193	5202	5211	5220	5229	5238
TGT AGC AAG AGT CCT AGT CAG GGG AGG TGC ATT TTA GTA GTT AAA TTG CAC TTA					
5247	5256	5265	5274	5283	5292
TCC ATG AGA TAA ATA AAA GGA GAA CTG TTT TTA TCA GTG GAG GCT AAC CTA AAA					
5301	5310	5319	5328	5337	5346
TTT CAA AGT GTC GCC TTT TTG AAA TCT TGG GCC TCT CTC TCT GTA GAA CCA ATG					
5355	5364	5373	5382	5391	5400
GCC CTT TGT GGC TCA CGG CCT CGC ACC TAA CTG GAG AGT TCT GAG CTC CTG CAG					
5409	5418	5427	5436	5445	5454
CTC ACC TGA GCC CAC AGA CTA GGC TTC TTG GCT CCT TCC GCA GCA TGC CTG CTC					
5463	5472	5481	5490	5499	5508
ACC CCC AGA ACC CGC AGC TGT GGG AAG AGC CAT GTA GGG AGG CTA TTC CCA GGC					
5517	5526	5535	5544	5553	5562
ATA CAC TTC CAC TGC CTT CAG CTG ACG TCA CAG CTG ACA AAT CAT CTC CTC TAT					
5571	5580	5589	5598	5607	5616
CGG AGC CAG AAG ACT TCA GCT CCA CAA AAT GAA GTG TTC TGT CCT GAA AAC ATT					
5625	5634	5643	5652	5661	5670
CTT GGG AAG AAT CCC AAC ATC GAG AAA ACG GTG TCC TGT GAG TTC CAA CAA TGC					

FIGURE 1N

5679	5688	5697	5706	5715	5724
TTC TTG TTC ATG GGT TTC TTC CGT ATG GAG TGG ATT AAG AGT GTT TTA TTT TGT					
5733	5742	5751	5760	5769	5778
TGT TCT AAC TGA GAA AAA AAG GAG GCA CCC ACA AGG TTG AGG TCA CAC AGT CTC					
5787	5796	5805	5814	5823	5832
CAC AGT TTC CAG GAG GCG TTT GGG GGT GGG GAA GGC ACC TCC AGA GCA TGA GGC					
5841	5850	5859	5868	5877	5886
TCT AAG GGG ACA TGA GTA AAG CAT GTC TGT GAC CCA GTG AGG AAG GGA GAG GCC					
5895	5904	5913	5922	5931	5940
AGC TGC ACT CCT GCA CGG GGT TCC TAG CTG CAG AAG GGT CCC GCC TAG GCC GAG					
5949	5958	5967	5976	5985	5994
GGG AAA CAC CTG ATA GCA GAA GAG GCC TGG ATG CAC ACC TGG CAC GCC GAG GCT					
6003	6012	6021	6030	6039	6048
CTC CGC CCA GAC ACA GTG CTC CAT GTC AGC CCC TGC ACC TGG GGT GTG TGA TTC					
6057	6066	6075	6084	6093	6102
ACG TGC ACA GAT GCC ACA ATC CTG CAC CAA TAT CCC ACA GAT GGG GGA AGG TGA					
6111	6120	6129	6138	6147	6156
GAG GAA GGG GCA AGT GAT GTG TAA CTG CTC AAG AGA TGC TTA AAC CTC CAT AGA					
6165	6174	6183	6192	6201	6210
GAG GAG CCG GGC GCA GGG GCA TCT GTG TGT CCC GTC ACA CAC TGC AGC AGG GAA					

FIGURE 10

6219	6228	6237	6246	6255	6264
GGG TGG CTG GCT	GCC TCC CTG GCA TCA GTG	GTT TGG TTT AAG CTC	CAG AGG GTC		
6273	6282	6291	6300	6309	6318
TTA TTG CCA TTG TCT TTT	CCT CTG CCC CTT GAG CCA GCC TAA GGC	CCT GGA GTC			
6327	6336	6345	6354	6363	6372
TGT TTC TTT AGG CGG ATG AAC TGA CAT GCT	CCT ACC ATG ACC AGG CTC	TGG GCA			
6381	6390	6399	6408	6417	6426
AGG CTC CTC ACA GTA TCC TTG AGA GGT GGG CAT GGA AGT	GCC CAT TTC TCA GGT				
6435	6444	6453	6462	6471	6480
ACA GAA ACC TTC AGA GAG GAT AAA TAG CTT	GCC CTG TAG AAG CAG GAC TGA AAC				
6489	6498	6507	6516	6525	6534
CCT TGT CCG CCT GAC TCC CCC AGC TAC TCT	GCC CAC TGT AGC CCC CTG	CCT TAC			
6543	6552	6561	6570	6579	6588
TGT CCT GGC ACA CCC CTC ACC ATC CTG TAT	ACC TTA AAT ATC AAA GAG GGC AAG				
6597	6606	6615	6624	6633	6642
AGA GAA AGG GCT TTA AAG ATA AGT TAT TTT	TTT AAG GAA CCT TAA TAT TAT TTT				
6651	6660	6669	6678	6687	6696
TAA GAA GTA ACC AAA TTA GTG ACG TGA AAT	GCA AAA AAA AAA AAT GCT				
6705	6714	6723	6732	6741	6750
GAC TAC CCT TTT GAA AAT GTG CTT TCA GAT	TGT TTT TTA TAT GTA ATT CTT AGA				

FIGURE 1P

6759	6768	6777	6786	6795	6804
CAC TTG TCA TTA AGA AAA TAG TGG CTG GCT TGT GCT CAG CAA GAA GCA CAC TGG					
6813	6822	6831	6840	6849	6858
CAC GTG GCT TTG GTA TAG GAA GTG GAA GGC AAG GAC CTG GGT TTC TGA CAA GTG					
6867	6876	6885	6894	6903	6912
CCG TCA GAC TTA CCC TTC CAT CTG GAG AGC TGG TGG CTT TGG TCC CCT GGG TAG					
6921	6930	6939	6948		
GGC CAT GGG TTC CCC ACT ATT ACT GGG AAG CTA TAG GGT G 3'					

FIGURE 1Q

1	M	S	Q	T	E	T	V	S	R	S	V	A	P	M	R	G	G	E	I	T	A	H	W	L	L	T	N	S	T	182514CD1	
1	-	I	T	I	T	E	T	S	H	S	T	P	S	Y	T	T	S	I	T	T	E	T	P	S	H	S	T	P	g2853301		
1	P	I	S	V	Q	P	S	S	S	S	P	T	-	-	-	-	-	T	S	T	T	S	V	Q	S	S	S	S	g915208		
31	S	A	D	V	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	182514CD1			
30	S	Y	T	T	S	I	T	T	E	T	P	S	H	S	T	P	S	F	T	S	S	I	T	T	E	T	T	S	g2853301		
27	S	V	P	I	P	S	T	T	S	V	Q	P	S	S	G	S	A	P	T	T	S	A	T	S	V	Q	T	S	S	g915208	
36	G	S	A	S	Y	P	E	G	V	N	A	S	V	L	T	Q	F	S	D	S	T	V	Q	S	G	G	S	-	-	182514CD1	
60	H	S	T	P	S	F	T	S	I	R	T	E	T	T	S	Y	S	T	P	S	F	T	S	S	N	T	I	T	g2853301		
57	S	S	P	P	I	S	S	T	I	S	V	Q	T	S	S	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208		
64	-	H	T	A	L	G	D	R	S	Y	S	E	S	S	S	T	S	S	E	S	L	N	S	S	A	P	R	G	E	182514CD1	
90	E	T	T	S	H	S	T	P	S	Y	I	T	S	I	T	T	E	T	P	S	S	T	P	S	F	S	S	S	g2853301		
74	-	-	-	-	-	-	-	-	-	S	V	P	T	T	S	T	T	S	V	Q	P	S	S	S	S	S	S	A	g915208		
93	R	S	I	A	G	I	S	Y	G	Q	V	R	G	-	-	T	A	I	E	Q	R	T	S	D	H	T	D	H	T	182514CD1	
120	I	T	T	E	T	S	H	S	T	P	G	F	T	S	S	I	T	T	E	T	T	S	H	S	T	P	S	g2853301			
93	P	T	T	R	A	T	S	V	Q	S	S	S	S	S	S	A	P	I	S	S	T	T	S	V	Q	-	-	P	S	g915208	
121	Y	L	S	S	T	F	T	K	G	E	R	A	L	L	S	-	-	-	-	-	I	T	D	N	S	S	S	D	182514CD1		
150	F	T	S	S	I	T	T	E	T	T	S	H	D	T	P	S	F	T	S	S	I	T	T	S	E	T	P	S	H	g2853301	
120	S	S	G	S	V	P	T	T	S	A	T	S	V	Q	S	S	S	S	S	S	A	P	T	T	S	A	T	S	V	Q	g915208

FIGURE 2A

REF ID: A6204860

145	I	V	E	S	S	T	S	Y	I	K	I	S	N	S	S	H	S	E	Y	S	S	F	S	H	A	Q	T	E	R	S	182514CD1
180	S	T	P	S	S	T	S	L	I	T	T	K	T	T	S	H	S	T	P	S	F	T	S	S	I	T	T	E		g2853301	
150	P	S	S	S	S	-	-	-	-	-	-	-	-	-	-	-	-	-	P	P	I	S	S	T	V	S	V	Q	P	g915208	
175	N	I	S	S	Y	D	G	E	Y	A	Q	P	S	T	E	S	P	V	L	H	T	S	N	L	P	S	Y	T	P	T	182514CD1
210	T	T	S	H	S	A	R	S	F	T	S	S	I	T	T	E	T	-	T	S	H	N	T	R	S	F	T	S	S	g2853301	
167	S	S	S	S	S	A	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208	
205	I	N	M	P	N	T	S	V	V	L	D	T	D	A	E	F	V	S	D	S	S	S	S	S	S	S	S	S	S	S	182514CD1
239	I	T	T	E	T	N	S	-	-	H	S	T	T	S	F	T	S	S	I	T	T	E	T	T	S	H	S	T		g2853301	
174	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	T	T	S	A	T	S	V	Q	P	S	S	S	S	g915208	
235	S	S	G	P	P	L	P	-	-	-	-	-	-	-	-	-	L	P	S	V	S	Q	S	H	L	F				182514CD1	
267	P	S	F	S	S	I	T	T	E	T	P	L	H	S	T	P	G	L	P	S	W	V	T	T	T	K	T	T		g2853301	
188	P	P	I	S	S	T	V	S	V	Q	T	S	S	S	S	V	P	-	-	-	-	-	-	-	-	T	T	S	T	g915208	
254	S	S	I	L	P	S	T	R	A	S	V	H	L	L	K	S	T	S	D	A	S	T	P	W	S	S	P	S	P		182514CD1
297	S	H	I	T	P	G	L	T	S	S	I	T	T	E	T	T	S	H	S	T	P	G	F	T	S	S	I	T	T		g2853301
210	T	S	V	Q	P	S	S	S	S	V	P	T	T	S	A	T	S	-	-	-	-	-	-	-	V	R	S	S	S	g915208	
284	L	P	V	S	L	T	T	S	T	S	A	P	L	S	V	S	Q	T	L	P	Q	S	S	S	T	P	V	L	P		182514CD1
327	T	E	T	S	E	S	T	P	S	L	S	S	S	T	I	Y	S	T	V	S	T	T	S	T	A	I	T	S	H		g2853301
234	S	S	T	P	I	P	S	T	S	V	Q	P	S	S	S	S	A	P	T	T	S	A	T	S	V	Q	P	S		g915208	

FIGURE 2B

314 R A R E T P V T S F Q T S T M T S F M T M L H S S Q T A D L 182514CD1
 357 F T T S E T A V T P T P V T P S S L S T D I P T T S L R T L 92853301
 264 S S S T T P I P S T S V Q P S S - S S S A P T T S A T S V 9915208

 344 K S Q S T P H Q E K V I T E S K S P S L - - V S L P T E S 182514CD1
 387 T P S S V G T S T S L T T T T D F P S I P T D I S T L P T R 92853301
 293 Q P S S S S - - - - - P P I S S T I S V Q P S S 9915208

 371 T K A V T T N S P L P P S L T E S S T E Q T L P A T S T N L 182514CD1
 417 T H I I S S S P S I Q S T E T S S L V G T T S P T M S T V R 92853301
 313 S - - - S S S P T T S T T S V Q P S S G S A P T T S A T S 9915208

 401 A Q M S P T - - - - - F T T T I L K T S Q P L M T T P G 182514CD1
 447 M T L R I T E N T P I S S F S T S I V I P E T P T Q T P P 92853301
 340 V Q P S S S S P P I S S - - - T I S V Q P S S S S S P T 9915208

 424 T L S S T A S L V T G P I A V Q T T - A G K Q L S L T H P E 182514CD1
 477 V L T S A T G T Q T S P A P T T V T F G S T D S S T S T L H 92853301
 367 - - T S T T S V Q P S S S G S A - - - - - 9915208

 453 I L V P Q I S T E G G I S T E R N R V I V D A T T G L I P L 182514CD1
 507 T L T P S T A L S T I V S T S Q V P I P S T H S S T L Q T T 92853301
 381 - - - P T T S A T S V Q P S S S S V P T T S A T S V R S S 9915208

FIGURE 2C

483	T	S	V	P	T	S	A	K	E	M	T	T	K	L	G	V	T	A	E	Y	S	P	A	S	R	S	L	G	T	S	182514CD1	
537	P	S	T	P	S	-	-	-	-	L	Q	T	S	L	T	S	T	S	E	F	T	T	E	S	F	T	R	G	S	T	g2853301	
408	S	S	S	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208		
513	P	S	P	Q	T	T	V	V	S	T	A	E	D	L	A	P	K	S	A	T	F	A	V	Q	S	S	T	Q	S	P	182514CD1	
563	S	T	N	A	I	L	T	S	F	S	T	I	I	W	S	S	T	P	T	I	I	M	S	S	S	P	S	S	A	S	g2853301	
413	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P	I	P	T	T	T	S	V	Q	P	S	S	S	S	g915208	
543	T	T	L	S	S	A	S	V	N	S	C	A	V	N	P	C	L	H	N	G	E	C	V	A	D	N	T	S	R	182514CD1		
593	I	T	P	V	F	S	T	T	I	H	S	V	P	S	S	P	Y	I	F	S	T	E	N	V	G	S	A	S	I	T	g2853301	
428	V	P	T	S	A	T	S	V	Q	T	S	S	S	S	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208	
573	G	Y	H	C	-	R	C	P	P	S	W	Q	G	D	D	C	S	V	D	V	N	E	C	L	S	N	-	-	-	-	-	182514CD1
623	G	F	P	S	L	S	S	A	T	T	S	T	S	S	T	S	S	L	T	T	A	L	T	E	I	T	P	F	-	-	g2853301	
444	-	-	T	P	I	P	S	T	T	S	V	Q	P	S	S	S	S	A	P	T	T	S	A	T	S	V	Q	P	-	-	g915208	
598	-	-	-	-	-	-	-	-	-	-	P	C	P	S	T	A	T	C	N	N	T	Q	G	S	F	I	C	K	P	V	182514CD1	
653	S	Y	I	S	L	P	S	T	T	P	C	P	G	T	I	T	I	T	I	V	P	A	S	P	T	D	P	C	-	V	g2853301	
471	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S	S	S	S	P	P	I	S	S	T	-	I	-	g915208		
619	G	Y	Q	L	E	K	G	I	C	N	L	V	R	T	F	V	T	E	F	K	L	K	R	T	F	L	N	-	-	T	182514CD1	
682	E	M	D	P	S	T	E	A	T	S	P	P	T	T	P	L	T	V	F	P	F	T	T	E	M	V	T	C	P	T	g2853301	
483	S	V	Q	P	S	S	S	S	S	P	T	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208	

FIGURE 2D

647	T	V	E	K	H	S	D	L	Q	E	V	E	I	T	K	T	L	N	M	C	F	S	A	L	P	S	Y	I	182514CD1
712	S	I	S	I	Q	T	T	L	T	T	Y	M	D	T	S	M	M	P	E	S	E	S	I	S	P	N	A	S	g2853301
496	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S	T	T	S	V	Q	P	S	g915208
677	R	S	T	V	H	A	S	R	E	S	N	A	V	I	S	-	L	Q	T	T	F	S	L	A	S	N	V	T	182514CD1
742	S	S	T	G	T	G	T	V	P	T	N	T	V	F	T	S	T	R	L	P	T	S	E	T	W	L	S	S	g2853301
506	G	S	A	P	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208	
705	L	F	D	L	A	D	R	M	Q	K	C	V	N	-	S	C	K	S	S	A	E	V	C	Q	L	L	G	S	182514CD1
772	V	I	P	L	P	L	P	G	V	S	T	I	P	L	T	M	K	P	S	S	S	L	P	T	I	L	R	T	g2853301
511	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	T	g915208	
734	R	I	F	R	A	G	S	L	C	K	R	K	S	P	E	C	D	K	D	T	S	I	C	T	D	L	D	G	182514CD1
802	K	S	T	H	P	S	P	P	T	T	R	T	S	E	T	P	V	A	T	Q	T	P	T	T	L	T	S	R	g2853301
514	T	S	V	Q	P	S	S	-	-	-	S	S	P	P	I	S	-	-	-	-	-	-	-	-	-	-	-	-	g915208
764	L	C	Q	C	K	S	G	Y	F	Q	F	Q	N	K	M	D	H	S	C	R	A	C	E	D	G	Y	R	L	182514CD1
832	T	T	R	I	T	S	Q	M	T	T	Q	S	T	L	T	T	A	G	T	C	D	N	G	G	T	W	E	Q	g2853301
528	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208	
794	T	C	M	S	C	P	F	G	L	G	L	N	C	G	N	P	Y	Q	L	I	T	V	V	I	A	A	G	-	182514CD1
862	Q	C	-	A	C	L	P	G	F	S	G	D	R	C	-	-	-	-	Q	L	Q	T	R	C	Q	N	G	Q	g2853301
528	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208	

FIGURE 2E

823	G	G	L	L	L	I	L	G	I	A	L	I	V	T	C	R	K	N	K	N	D	I	S	K	L	I	F	K	S	182514CD1	
887	D	G	L	K	C	Q	C	P	S	T	F	Y	G	S	S	C	-	-	-	E	F	A	V	E	Q	V	D	L	D	A	g2853301
528																														g915208	
853	G	D	F	-	-	Q	M	S	P	Y	A	E	Y	P	K	N	P	R	S	Q	E	W	G	R	E	A	I	E	M	H	182514CD1
914	E	D	F	C	R	H	A	G	L	H	L	Q	G	C	G	D	P	V	P	E	E	W	Q	H	-	-	-	-	-	-	g2853301
528																														g915208	
881	E	N	G	S	T	K	N	L	L	Q	M	T	D	V	Y	S	P	T	S	V	R	N	P	E	L	E	R	N	G	182514CD1	
938	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g2853301	
528																														g915208	
911	L	Y	P	A	Y	T	G	L	P	G	S	R	H	S	C	I	F	P	G	Q	Y	N	P	S	F	I	S	D	E	S	182514CD1
941	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P	G	P	A	G	D	A	L	Q	P	P	A	g2853301	
528																														g915208	
941	R	R	R	D	Y	F																									182514CD1
955	E	R	-	-	-	V																									g2853301
528																															g915208

FIGURE 2F